





UNIVERSITY OF CALIFORNIA  
MUSEUM OF VERTEBRATE ZOOLOGY













Digitized by the Internet Archive  
in 2017 with funding from  
CLIR







Prack, F. A.

Russian Gulch State Park,  
Mendocino Co., Calif.

May-June 1941







# Specimen Register

May 17

Russian Gulch State Park, Mendocino Co., California, Elevation 40 ft.

- |    |         |                               |  |          |
|----|---------|-------------------------------|--|----------|
| 15 | ♂       | <u>Peromyscus maniculatus</u> | 150-66-21- $\overset{n}{18}$ - $\overset{c}{17}$ | 22.8 gm. |
| 16 | ♀ (emb) | <u>Sorex pacificus</u>        | 141-55-16- $\overset{n}{9}$ - $\overset{c}{7}$   | 12.4 gm. |
| 17 | ♀ (emb) | <u>Sorex townsendii</u>       | 121-55-12- $\overset{n}{8}$ - $\overset{c}{6}$   | 7.6 gm.  |

May 18

500 ft

- |    |   |                               |  |          |
|----|---|-------------------------------|--|----------|
| 18 | ♂ | <u>Peromyscus maniculatus</u> | 164-77-19- $\overset{n}{18}$ - $\overset{c}{17}$ | 19.5 gm. |
|----|---|-------------------------------|--|----------|

40 ft.

- |    |   |                               |  |          |
|----|---|-------------------------------|--|----------|
| 19 | ♂ | <u>Peromyscus maniculatus</u> | 175-79-21- $\overset{n}{19}$ - $\overset{c}{18}$ | 17.4 gm. |
|----|---|-------------------------------|--|----------|

500 ft.

- |    |  |                     |       |  |
|----|--|---------------------|-------|--|
| 20 |  | <u>Batrachoseps</u> | 88-48 |  |
|----|--|---------------------|-------|--|

- |    |  |                     |    |  |
|----|--|---------------------|----|--|
| 21 |  | <u>Batrachoseps</u> | 25 |  |
|----|--|---------------------|----|--|

May 19

- |    |         |              |   |         |
|----|---------|--------------|---|---------|
| 22 | ♀ (emb) | <u>Sorex</u> | 113-50-12- $\overset{n}{10}$ - $\overset{c}{7}$ | 7.5 gm. |
|----|---------|--------------|---|---------|

- |    |         |              |  |       |
|----|---------|--------------|--|-------|
| 23 | ♀ (emb) | <u>Sorex</u> | 109-51-13- $\overset{n}{9}$ - $\overset{c}{6}$ | 4 gm. |
|----|---------|--------------|--|-------|

- |    |   |                             |           |          |
|----|---|-----------------------------|-----------|----------|
| 24 | ♂ | <u>Neurotrichus gibbsii</u> | 109-39-15 | 10.5 gm. |
|----|---|-----------------------------|-----------|----------|

40 ft.

- |    |   |                               |  |          |
|----|---|-------------------------------|--|----------|
| 25 | ♂ | <u>Peromyscus maniculatus</u> | 172-82-22- $\overset{n}{17}$ - $\overset{c}{16}$ | 16.9 gm. |
|----|---|-------------------------------|--|----------|

- |    |   |                               |  |          |
|----|---|-------------------------------|--|----------|
| 26 | ♂ | <u>Peromyscus maniculatus</u> | 160-78-21- $\overset{n}{16}$ - $\overset{c}{14}$ | 16.2 gm. |
|----|---|-------------------------------|--|----------|

May 20

- |    |         |  |  |          |
|----|---------|--|--|----------|
| 27 | ♀ (emb) |  | 144-68-21- $\overset{n}{9}$ - $\overset{c}{6}$ | 12.5 gm. |
|----|---------|--|--|----------|

- |    |   |                               |  |        |
|----|---|-------------------------------|--|--------|
| 28 | ♂ | <u>Peromyscus maniculatus</u> | 167-80-22- $\overset{n}{18}$ - $\overset{c}{17}$ | 22 gm. |
|----|---|-------------------------------|--|--------|

- |    |         |              |  |         |
|----|---------|--------------|--|---------|
| 29 | ♀ (emb) | <u>Sorex</u> | 117-51-14- $\overset{n}{9}$ - $\overset{c}{6}$ | 6.4 gm. |
|----|---------|--------------|--|---------|

- |    |                  |                               |  |          |
|----|------------------|-------------------------------|--|----------|
| 30 | ♀ (5 emb. 15 mm) | <u>Peromyscus maniculatus</u> | 163-75-22- $\overset{n}{19}$ - $\overset{c}{18}$ | 26.4 gm. |
|----|------------------|-------------------------------|--|----------|

- |    |   |                               |  |          |
|----|---|-------------------------------|--|----------|
| 31 | ♂ | <u>Peromyscus maniculatus</u> | 190-92-22- $\overset{n}{19}$ - $\overset{c}{18}$ | 22.5 gm. |
|----|---|-------------------------------|--|----------|

May 21

- |    |         |                      |  |         |
|----|---------|----------------------|--|---------|
| 32 | ♀ (emb) | <u>Sorex vagrans</u> | 114-53-14- $\overset{n}{8}$ - $\overset{c}{7}$ | 5.3 gm. |
|----|---------|----------------------|--|---------|

- |    |         |              |  |         |
|----|---------|--------------|--|---------|
| 33 | ♀ (emb) | <u>Sorex</u> | 121-49-13- $\overset{n}{9}$ - $\overset{c}{7}$ | 6.6 gm. |
|----|---------|--------------|--|---------|

- |    |   |              |   |         |
|----|---|--------------|---|---------|
| 34 | ♂ | <u>Sorex</u> | 113-54-14- $\overset{n}{10}$ - $\overset{c}{6}$ | 5.5 gm. |
|----|---|--------------|---|---------|

- |    |         |                        |   |          |
|----|---------|------------------------|---|----------|
| 35 | ♀ (emb) | <u>Sorex pacificus</u> | 138-65-18- $\overset{n}{10}$ - $\overset{c}{7}$ | 10.3 gm. |
|----|---------|------------------------|---|----------|

- |    |         |                             |           |        |
|----|---------|-----------------------------|-----------|--------|
| 36 | ♀ (emb) | <u>Neurotrichus gibbsii</u> | 113-43-17 | 11 gm. |
|----|---------|-----------------------------|-----------|--------|

- |    |   |                               |  |        |
|----|---|-------------------------------|--|--------|
| 37 | ♂ | <u>Peromyscus maniculatus</u> | 175-83-23- $\overset{n}{20}$ - $\overset{c}{17}$ | 20 gm. |
|----|---|-------------------------------|--|--------|







# Specimen Register

May 21

Russian Gulch State Park, Mendocino Co., Calif., Elevation 40 ft.

38 ♂ Peromyscus maniculatus 173-84-21-18<sup>n</sup>-17<sup>c</sup> 18.7 gm

39 ♂ Peromyscus maniculatus 181-86-23-18<sup>n</sup>-17<sup>c</sup> 23.1 gm

40 ♂ Peromyscus maniculatus 180-86-23-18<sup>n</sup>-16<sup>c</sup> 22.5 gm

May 24

41 ♀ (no emb) Sorex 128-59-14-9<sup>n</sup>-7<sup>c</sup> 7.6 gm

42 ♂ Sorex pacificus 137-56-18-9<sup>n</sup>-7<sup>c</sup> 15.8 gm

43 ♂ Zapus orarius 218-128-34-16<sup>n</sup>-13<sup>c</sup> 28.4 gm.

44 ♀ (no emb) Peromyscus maniculatus 195-102-23-19<sup>n</sup>-18<sup>c</sup> 21 gm.

45 ♂ Peromyscus maniculatus 168-88-22-17<sup>n</sup>-16<sup>c</sup> 18.6 gm.

46 ♀ (no emb) Thomomys bottae 154-49-24-5<sup>n</sup>-4<sup>c</sup> 38.2 gm

May 25

150 ft.

47 ♂ Microtus 137-42-22-14<sup>n</sup>-11<sup>c</sup> 30.5 gm

48 ♂ Zapus orarius 222-136-33-13<sup>n</sup>-12<sup>c</sup> 25.6 gm

May 26

40 ft.

49 ♂ Thomomys bottae 204-60-26-7<sup>n</sup>-6<sup>c</sup> 111.4 gm

150 ft.

50 ♂ Sorex pacificus 146-60-18-12<sup>n</sup>-9<sup>c</sup> 15.4 gm

51 ♂ Neurotrichus gibbsii 113-44-17 12.9 gm

52 Sorex vagrans 119-56-13-8<sup>n</sup>-7<sup>c</sup> 5 gm

53 ♀ (no emb) (SKIN ONLY) Neotoma fuscipes 411-201-41-30<sup>n</sup>-29<sup>c</sup> 261.4 gm

May 28

54 ♂ Thomomys bottae 184-57-25-8<sup>n</sup>-5<sup>c</sup> 95.8 gm

55 ♂ Sorex 89-39-12-7<sup>n</sup>-6<sup>c</sup> 4.1 gm

56 ♀ (SKULL ONLY) Sylvilagus bachmanni

57 ♂ Microtus 149-41-22-16<sup>n</sup>-13<sup>c</sup> 34.5 gm

May 29

40 ft.

58 ♂ Thomomys bottae 223-67-27-9<sup>n</sup>-6<sup>c</sup> 123.3 gm

May 31

150 ft.

59 ♀ (no emb) Thomomys bottae 174-52-24-7<sup>n</sup>-6<sup>c</sup> 68.5 gm.







# Specimen Register

May 31

Russian Gulch State Park, Mendocino Co., California, Elev. 40 ft.

60 ♂ (<sup>SKIN</sup><sub>ONLY</sub>) Microtus

149-43-23-16-11<sup>n</sup><sup>c</sup>

51.2 gm

June 1

40 ft.

61 ♀ (<sup>no</sup><sub>emb</sub>) Sorex

115-53-14-10-7<sup>n</sup><sup>c</sup>

6.4 gm.

62

Discamptodon

239 total length







Frazer Asack  
1941

## Journal

May 16.

A party of five, -Viola Memmley, Josephine Crawley, Jean Bouleware, Mrs. Grennell, and I - left Berkeley at 7:10 AM with intention of making camp somewhere along coast of Mendocino County. Dr. David Johnson drove the old Museum truck carrying our sleeping bags, collecting and camping equipment, and food. We took highway 101 going up through San Rafael, Santa Rosa, and Cloverdale, then took highway 28 through Yuba City, Philo, <sup>and</sup> Elsie Memorial Park, ~~which~~ we were hunting, but didn't know we were ~~through~~ ~~at~~ until we came to the ocean. We ate our lunch here on the bank of the Navarro River. We went on taking highway 1 through Albion, Little River, Mendocino City to Russian Gulch State Park. This highway follows the ocean all the way from the mouth of the Navarro River. Dr. Johnson drove in to look over the territory & came back with a favorable report, so we went in to pick out a camp site. We did and then had to sit around and wait until the ranger could be found before we could start setting up camp. which we did around 5 P.M. We had difficulty getting the fire going, because the wood was wet. Viola and Mrs. Grennell alternated blowing and supper slowly cooked and was served around seven. The camp is on the edge of a creek in riparian habitat of red alder, thimble berry, Ceanothus - <sup>between</sup> ~~at the base of~~ two high hills







Journal

May 17

Russian Gulch State Park, Mendocino Co., California

Set 31 museum specials baited with walnuts (smashed)

May 16 after sundown — at the edge of dense underbrush and thick, tall grass which had been cut. Most of traps set within a yard or two of a creek. Ground was very damp. Underbrush consisted of Equisetum, raspberry, thimble berry, <sup>and</sup> fern. Trees along creek in brush are red alders. The creek flows along the base of a steep hill covered with Douglas fir, lowland fir, and red alder at base near creek. Began raining during the night and continued raining in the morning. Examined traps at 5:30 AM. — catch:

4 Sorex pacificus, 2 Sorex townsendii, 1 Sorex vagrans,  
4 Peromyscus maniculatus, 1 Reithrodontomys megalotis.

3:00 PM. Jan Boulevard and I took North Trail up hill covered with redwoods which gradually gave way to Douglas fir <sup>and</sup> Bishop pine, and then when we reached flat country, found it overgrown with small trees and shrubs and scattered tall Bishop pines — Cephaelis <sup>(Pinus muricata)</sup>  
pygmaea, <sup>(Pinus contorta v. bolanderi)</sup> huckleberry, small pine (sp.?), Rhododendrons, <sup>this known as Pine barrens.</sup> thimble berry, manzanita, tankard oak. We set 28 traps in low shrubs and along edge of pygmy cypress and low shrubs. Ground wet here & covered with rotting brown leaves. Set 4 traps on edge of dense forest of Douglas fir, Bishop pine, & redwood. Ground here matted thickly (someplace 2 ft) with old pine needles and leaves of the trees.

May 18

Left camp at 7:AM to collect traps. One Sorex vagrans trapped in opening to burrow system which went back into a







# Journal

May 18 Russian Gulch State Park, Mendocino Co., California

pile of decaying pine needles and red wood & Douglas fir  
twigs about 2 feet deep stacked against a Bishop pine  
shaded forest here with ground thickly matted with  
above mentioned vegetation and strewn with numerous  
decaying tree trunks. Ferns, Rhododendrons, huckleberry,  
Chinquapin, Clintonia andrewsiana, Ground iris (Macrospora),  
scattered on forest floor. Examined other piles of  
decaying vegetation and found these same intricate  
burrow systems. Found 2 large burrow entrances  
about  $3\frac{1}{2}$  - 4" in diameter. Two salamanders  
found in burrow system where trapped Sorex  
vaguans They were in tight coils. One 4 inch one  
found in burrow near ground; small one inch  
salamander found in burrow near top of pile.  
Orthopteran, isopods, worms and spiders found  
in the burrows. One Clothionomys sp. (?) caught in  
dense growth of tanbark oak, Rhododendrons, bracken,  
Cupressus pygmaea, <sup>(Pinus contorta v. bolanderi)</sup> morganita, small pines (3-4 ft),  
huckleberry, Labrador tea and Oregon grape. Ground  
was wet and covered with decaying leaves. Peromyscus  
maniculatus caught in low growth of pygmy cypress,  
huckleberry, bracken (green and dry), and small  
Bishop pine. — unshaded, flat country — quite  
windy. Two traps were sprung — one at edge of  
pygmy forest and one in low vegetation. It  
seems as if the pygmy forest is not a good  
trapping ground. The animals were caught







Francis A. Pack  
1941

## Journal

May 18 Russian Gulch State Park, Mendocino Co, California  
at the edge of it.

2:00 PM. Viola Menamble, Mus. Gennell and I took North Trail to pigmy forest on flat lands again. Weather was warm and sunny. Excavated a mole burrow in sandy soil on side of trail at edge of growth of manzanita and huckleberry. Mounds were high piles of dirt the hole being in the center of the mound. In some cases hole came up straight to surface and others slanted. One burrow went down 12 inches, ~~and~~ came to surface travelling about 2 inches below, then ended by coming to very surface and going under matting of decaying leaves. Four of the mounds were fresh today, because they hadn't been rained on. Burrows wound in among tangle of surface roots of the manzanita & huckleberry. and were about  $1\frac{1}{4}$  inches in diameter. Set mole trap in 3 inch deep unexcavated burrow. Went on into forest where I caught Sorex vagrans on May 17 night and set two rat traps in the large burrow openings I found there in hopes of catching an Aplodontia. Went back into forest of Douglas fir, Bishop pine, and Redwood and set 16 traps mostly along sides and under decaying tree trunks strewn on the ground.







## Journal

May 19 Russian Gulch State Park, Mendocino Co., California - (40' at camp)

7:00 A.M. Collected the 16 traps I set in redwood forest (elevation 500 ft): male shrew-mole (Neurotrichus) in well-trampled depression under old log in shaded redwood forest. Ground was wet covered with 2 feet of decaying vegetation through which wood sorrel and bracken were growing. Two shrews caught in entrance to tunneling into decaying vegetation piled against a log. Two other traps were sprung. This area very damp and cold. Very little sunshine gets through to the ground. The thick matting of vegetation on the ground is a mixture of redwood twigs and bracken and is wet. The two shrews I put up were females and had conspicuous mammary glands and nipples, however, they had no embryos. They were evidently nursing young. Examined mole trap I had set on May 18, and it was un sprung. Reset it in a different burrow system. Examined the two rat traps I set May 18 in what I supposed were Aplodontia burrows. One of the traps was sprung, pulled out of the hole, and lying 2 feet from the entrance to the burrow. Reset these traps. It was cold during the night, but was warm and sunny all day.

May 20 Russian Gulch State Park, Mendocino Co., California, Elevation 40'

32 traps set west of camp about  $\frac{1}{8}$  mile on south side of creek at base of hill. Marshy area followed hill part of the way bordering a wide meadow. Marsh covered with sedge. Set most of the







May 20. Russian Gulch State Park, Mendocino Co., California, Elev. 40 ft.

traps at edge of high growth of thimbleberry, blackberry, nettle bordering on the marsh and the meadow. Many runways large enough for rabbits went into the bushes and the sedge.

The meadow was full of Microtus runways in which were fresh green grass clippings.

Caught 1 Sorex pacificus (♀), 1 ♂ Microtus, 2 ♂ and 1 ♀ Peromyscus maniculatus, and 1 ♀ unidentified shrew. (Sorex benderii)

May 21 Josephine Crawley & I set 48 traps along the side of the road east of camp. The habitat about the same for the full length of the trapline.

Riparian - thimbleberry, salmon berry, nettle, alder, Equisetum. Very damp, ground wet, well-shaded. Caught 24 animals -

5 Sorex pacificus, 5 Sorex sp(?), 11 ♂ Peromyscus maniculatus, 3 shrew moles.

and 8 traps were sprung. When we were returning from setting the traps (after a short extra hike) we heard a trap snap at 8:00 PM and using flashlights found the trap. A Zapus orarius was in the trap still alive. But not caught securely & when we attempted to get it, it escaped. This habitat is evidently very suitable for shrews - damp, abundant green cover and decaying vegetation, creek, well-shaded and







Francis M. Black  
1941

## Journal.

- May 21 Russian Gulch State Park, Mendocino Co., California  
many small runways, burrows, & other  
hiding places. Can't figure out why we should  
catch all male Peromyscus maniculatus
- May 22. Today was used for gopher & mole trapping. The  
ground is covered with dense vegetation  
offering good feeding for gophers & moles. There  
are gopher burrows evidenced by mounds  
all over. Set 6 traps but caught none.  
Set mole trap. Later saw fresh mounds  
near trap, dug surface burrow (1 1/2 inches  
diameter) and ~~gopher~~ young gopher poked its  
head out. Jan Boulware picked it up by  
the tail, and we put it in an old crock  
can. Josephine Crawley & I took hike to  
beach while awaiting results on gopher  
traps. Along shore about 20 ft from  
ocean high up on jet of land extending  
out in ocean observed wren-tit in bush.  
Chirped loudly at first, flitted around, then  
gave familiar call. Many white-crowned  
sparrows in this area — some are  
nesting in this area. Saw pair carrying  
food to a bush in which there evidently  
was a nest. Song sparrows abundant  
here & singing all the time. A wide  
strip of land between the main highway  
& the ocean is a grassy meadow







Journal.

May 22 Russian Gulch State Park, Mendocino Co., California  
with few Bishop pines and low bushes  
— very windy & damp. Saw 4 meadow  
larks. One was feeding young. We saw  
it carrying food to its young. It would  
circle around & alight, fly away  
again and alight way off in another  
direction. It was evidently trying to  
distract our attention. Two California  
Woodpeckers seen pecking an alder  
& oak at seashore, but in low  
area near entrance to the gulch.  
Other birds observed were Allen  
hummingbird, Olive-sided flycatcher,  
Bush-tits, Gnatcatcher, Vaux swallow,  
Violet-green swallow, Pilolated  
warbler, band-tailed pigeons, vultures,  
crows.

May 24. Jean Boulware and I set 25 traps west of camp in  
meadows and riparian habitat beside road and  
bordering the creek. This is the same place in  
which traps were set May 16. Caught 4 Peromyscus  
maniculatus, 3 Sorex pacificus, 2 Zapus orarius  
— caught in meadow — in runway, 2 small  
Sorex (sp.?) — possibly S. vagrans.

May 25 Jean Boulware & I hiked up hill to south of ranger's  
house. up to meadow. Hill covered with  
mixture of Douglas fir, grand fir, alder,







## Journal

May 25. Russian Gulch State Park, Mendocino Co., California  
under which was tangle of thimble berry, blackberry,  
salmon berry, some Baccharis higher up. Woodland  
cut off abruptly at fence south of which is  
grassy meadow with an occasional clump of  
Baccharis. Set 25 museum special along  
border of woodland in what looked like  
runways. Caught: 1 Zapus orarius, 1 shrew-mole,  
1 Microtus, and 2 Peromyscus maniculatus. Shrew-mole  
was partly eaten so only skull prepared. One Peromyscus  
mangled in rat trap which was set in rabbit runway.  
Two rat traps set under alder in pathways leading to  
wood rat nest. Caught two whisks in one of these.  
Two more rat traps set under Douglas fir beside road  
about 1/8 mile from ocean. Three embryos, the head, and  
intestinal tract of a wood rat left on one trap. Reset  
the traps at 7 AM. At 2 PM found chipmunk  
in one trap which was set on trail leading to tree.

May 26 Russian Gulch State Park, Mendocino Co., Calif., Elevation 150 ft.  
Jan Bouliere and I climbed to same area as described for  
May 25. Set 19 traps east of region above further up the hill  
Grass covered meadow on <sup>N-W</sup> 15° slope - grass 3' tall  
in spots - but about 5-6 inches in most places -  
Avena, Compositae, mints, Blackberry and an occasional  
clump of Baccharis. Brush edged the meadow consisting  
of at the lower level of the meadow - predominantly  
thimble berry, wild rose, blackberry with some Chenopodium,  
salmon berry, Cassia, and Baccharis. Higher up





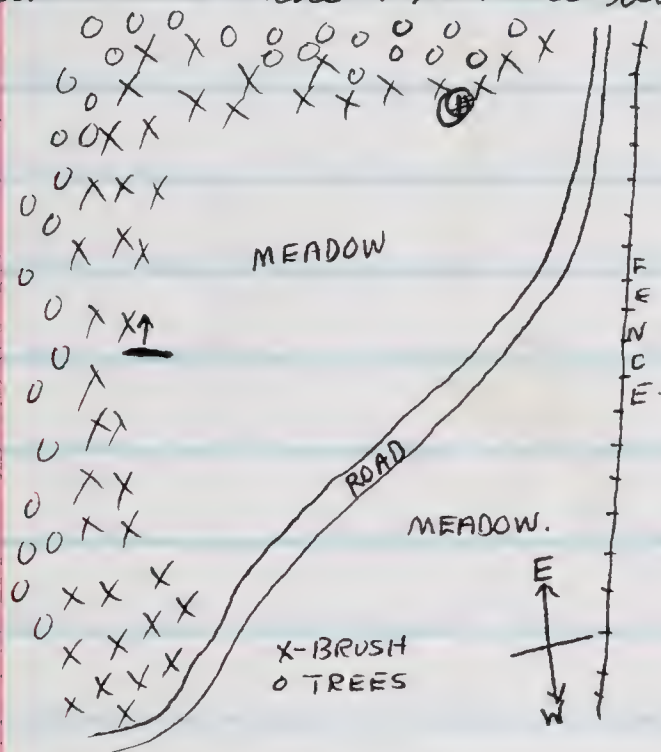


Francis A. Pack  
1941

## Journal.

May 26 Russian Gulch State Park, Mendocino Co., California, Elevation 150 ft.

more Baccharis and, Chingcupin, and blackberry mixed in with the thimble berry. No plane begun at 1.



Saw about 50 hand-tailed pigeons roosting in Abies grandis and alders. Flew away in a flock when we came near.

3 shrewmoles caught under Baccharis, holm oak tea, thimble berry, and blackberry

tangle. 2 Peromyscus maniculatus caught under same type of habitat. Also 2 Sorex pacificus, 1 Sorex vagans, and 2 spring. Neotoma fuscipes caught in rat trap. (hit across skull) on edge of meadow in brush. Nest made of sticks & leaves at base of tree. Most of them are 1/4 inch in diameter. Shrubbery grown over around here. with thimble berry, salmon berry, Chingcupin, gooseberry, & ferns. Halfway up the hill south of the ranger's house - covered with growth of Grand fir, alders, thimble berry and blackberry. Trees are not very tall. - woodrat caught under alder on path leading to nest. Slope about 50°; ground wet and soft. Hard rain during night made ground wet. Another woodrat caught under same tree as caught chipmunk (May 25) and intestines, etc of woodrat. Male and female caught under this same tree. Nest (1 1/2' by 2') on branch of







James T. Brock  
1941

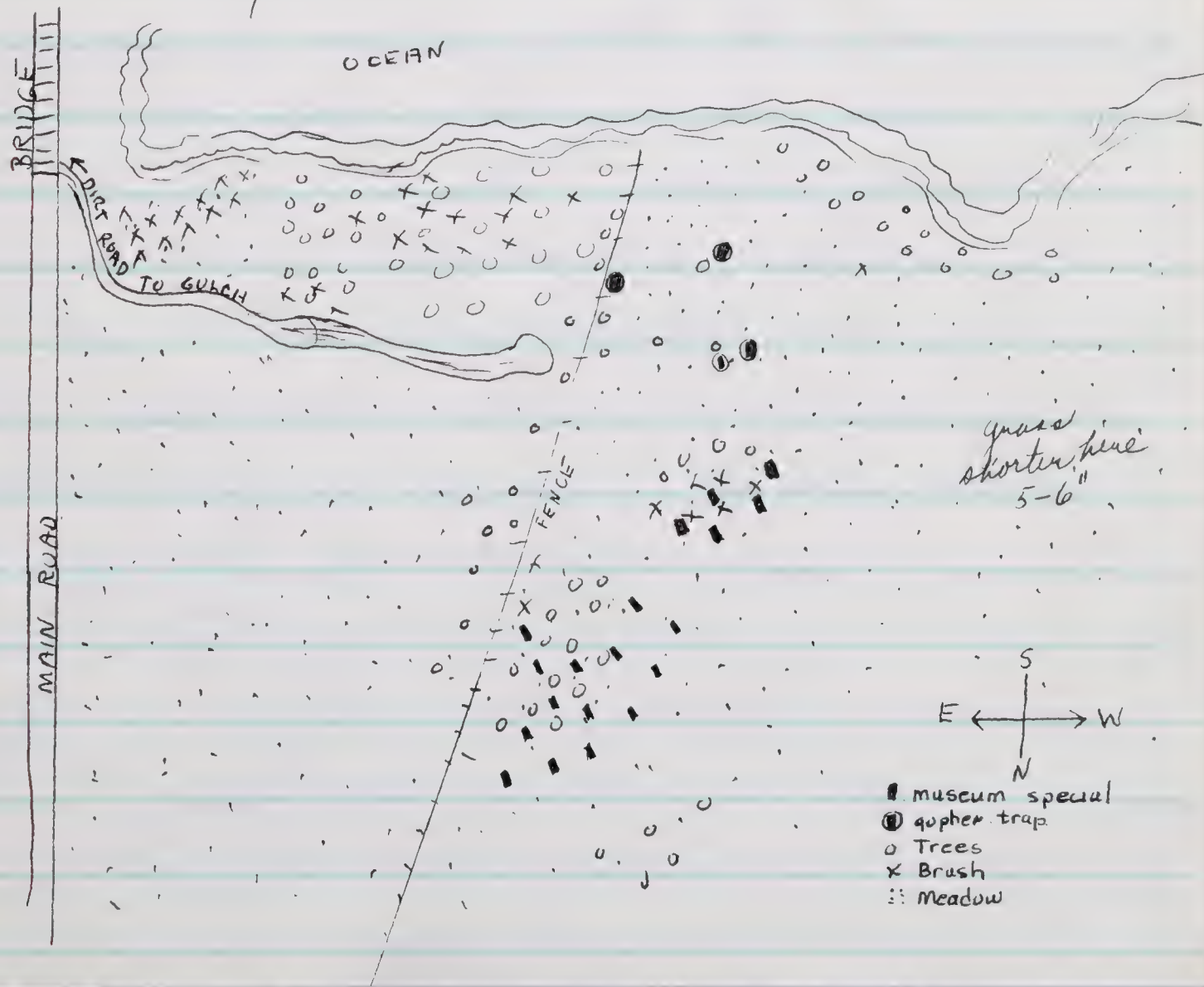
# Journal.

May 26 Russian Gulch State Park, Mendocino Co, California, Elevation 150 ft -

Douglas fir about 10' from the ground.

When driven to town saw ground squirrel scurrying down road and over hill under bridge spanning the mouth of Russian Gulch.

May 28 The four of us went out at low tide - about 7:AM - to collect and observe invertebrate life. Collected traps on the way home. Jan Boulware and I set gopher and museum special traps. Weather very warm, but slightly overcast for part of the day. We set four gopher traps in burrows in meadow 100 yards from ocean. Meadow covered thickly where we set with Avena, other grasses (sp?) and blackberry; occasional clump of Baccharis, and Bishop pines along edge of cliff overlooking ocean.









Journal.

May 28

Russian Gulch State Park, Mendocino Co., California, Elevation 400 ft

Caught 1 gopher (immature ♀), 6 Microtus (5 ♂'s and 1 ♀ with 4 embryos), 1 Sorex vagans. Microtus and Sorex caught in runways in thick grass. Runways occurred only where there was a matting of dry grass at the base of the tall green grass (24 inches). The meadow farther out toward ocean had shorter grass (5-6"). It looked as if this area had recently been grazed over by sheep because of the lack of dry grass near the ground. In these areas found no runways even though sometimes the grass was about 15" high. Set 2 more gopher traps across the road from the ranger's house in a lawn and caught 1 large ♂ gopher. Mole trap set here, too, but no luck. Reset one gopher trap and caught young ♀ gopher which I picked up around 6:00 P.M. These two caught about 10 yds apart. Burrows here about 1 1/2" ~~in~~ under ground - 3" diameter. Mounds resemble mole mounds because pushed straight up and flow out from center. Young ♀ caught where we found mass of dried grass and green grass pressed in a small cavern off the side of the main burrow. This mass only 1 1/2 inches below surface.





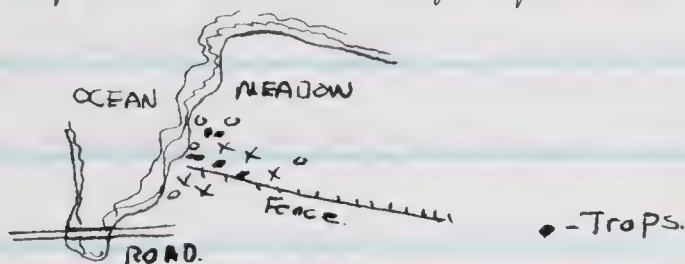




# Journal

May 29 Russian Gulch State Park, Mendocino Co., California

Set 6 gopher traps on bluff overlooking ocean. Ground grassy with pine needles quite thick, ~~and~~ loose, damp. Few Bishop pine along the edge.



Burrows close to surface and sometimes resembled mole runs by having dirt heaped up over burrow. Weather chilly during night, no dew in the morning & warm & intermittently sunny all day. Caught no gophers, however, two traps were covered over. Set 19 museum specials in meadow along road in gulch at 40 ft elevation east of the ranger's house on the road to camp. Sorex vagans caught in trap in middle of heavily overgrown meadow, on north side of road at base of hill. Two Peromyscus maniculatus trapped at edge of meadow & brushland. This seems to be the usual place to find them. Thick, tall grass growing up to heavy brush. They have a chance to feed in both types of habitat.

Violent Green ~~swallow~~ <sup>swallow</sup> perched on bare Bishop pine limb at edge of cliff at 7 AM.

Set two more gopher traps in 6" <sup>deep</sup> burrow in camp meadow west of our camp. Grass thick and ground damp & full of roots.







Frances A. Probst  
1941

## Journal

May 29 Russian Gulch State Park, Mendocino Co., California

Set these at 12:15 PM and at 3:30 PM picked up big male Thomomys talpae.

Tonight we celebrated Mrs. Biennell's birthday with an angel food cake with long candles and ice cream (courtesy JTB) for once I was glad to help with the dishes to keep warm.

May 30 Started raining during the night and continued until 4 PM. Set only 5 museum specials under picnic table in next camp - grass about 2 feet high here. - one Sorex vagrans caught on margin of brush growth of thimble berry and nettle. (put up by Jean & Bouleware) Three museum specials I had set when walking with Mrs. Biennell to look at her traps yielded 1 ~~Microtus~~ <sup>Clethrionomys</sup> (?) (put up by J.T.B.), 1 Peromyscus, and 1 battered Sorex pacificus. These traps set - 2 under red wood log in dry, well-trampled depression and 1 in tree hollow. This at beginning of the redwood forest, slope about 45° angle, ground covered with decaying vegetation, well-shaded with little green vegetation. Examined collections of twigs in branches of redwood tree and found these to be ~~scattered~~ down - possibly resting place for squirrels. Most of today spent in car & tent reading.

~~May 31~~ Sun came through about 4 PM. Jean Bouleware & I walked to the ocean and set seven gopher traps near the edge of cliff overlooking ocean. Grass about 5







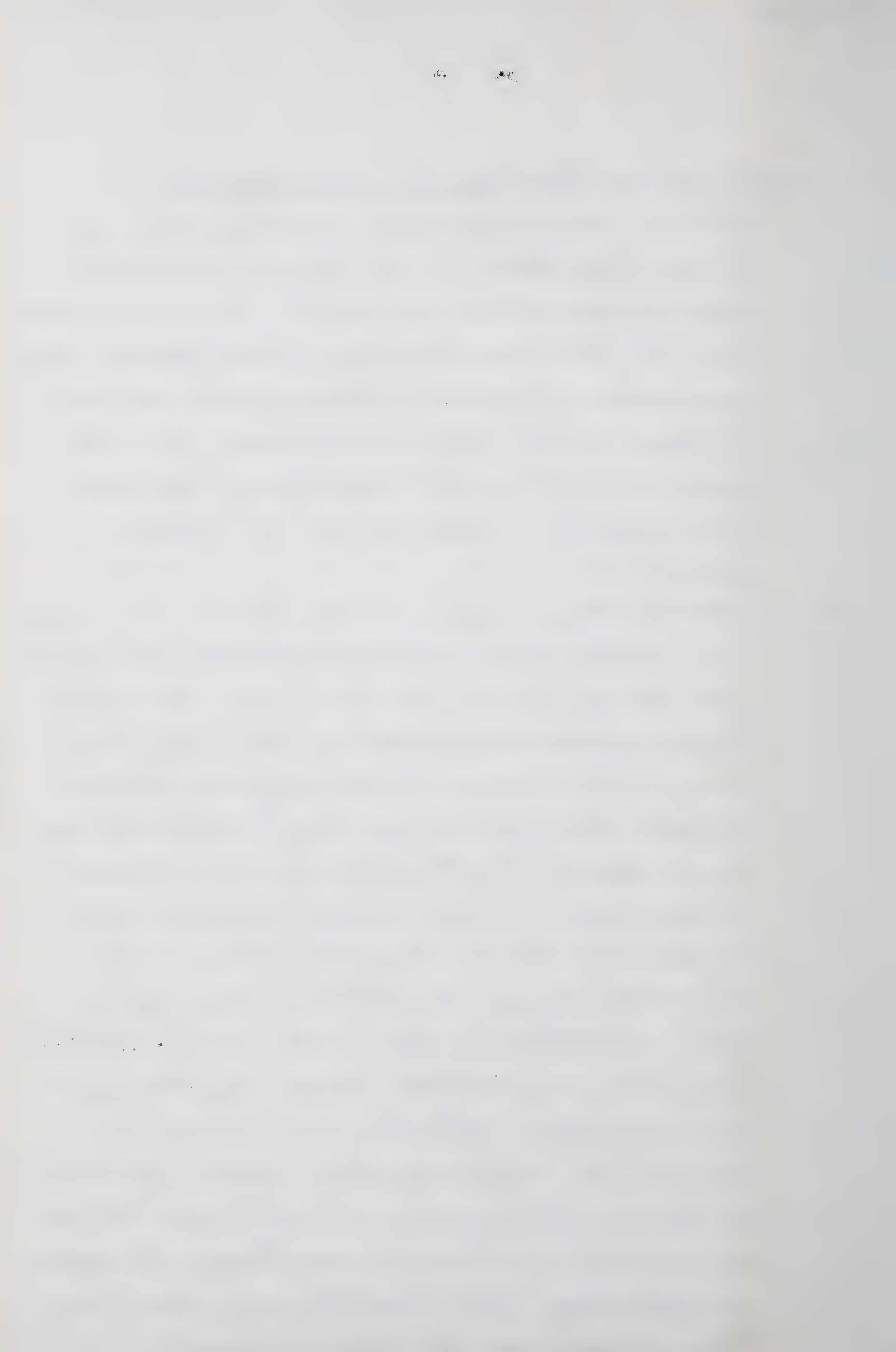
Journal

May 30 Russian Gulch State Park Mendocino Co. California.

inches high. Ground soft & wet as result of downpour. Ground level; elevation 150 ft. Slight slope toward ocean. Numerous mounds around each place in which traps set. Dirt was blackish. Walked farther away from ocean to meadow where grass about 2 ft high with good under-cover of dried grass through which ran many Microtus runways in which we set 15 museum specials.

May 31. Collected traps around 6:30 AM. Two ♂ and 1 small ♀ in gopher traps. Female evidently was caring for young, since she had well-developed mammary and was devoid of embryos. These three caught in runs 6" below surface. Meadow as described in journal for May 30. Rained during night ~~but~~ and slightly in the morning - cleared about 10: AM. - N.W. wind. Catch nil in <sup>15</sup> museum specials and not one trap was sprung. We said it was due to the wetness of the grass. Jean and I went for a hike to the ocean at 1:30 PM to take pictures and collect traps - 3 gopher traps & the mouse traps. White-crowned sparrows singing from tops of Baccharis bushes. We saw 4 young white-crowns in road. Oyster catcher swimming near beach under bridge. No gophers in gopher traps. Went back to where mouse traps set in meadow by fence. - caught 1







# Journal

May 31 Russian Gulch State Park, Mendocino Co., California.

♀ Peromyscus leucurus - which had well-developed mammae and no embryos in uterus. As approached place where traps set (3:00 PM) heard one snap - Jean went to it & found it sprung with nothing in it - the meadow mouse was found dead a foot & a half away. Perhaps the same thing happened in some of the other traps of ours which had been sprung in the past.

In some 5 museum specials under picnic table in our camp caught Peromyscus maniculatus and a Microtus. While sunning her bedding Mrs. Grennell saw a Zapus americanus scamper away twice from under the table during the day.

Species seen today: Turkey vultures soaring overhead, crow, white-crowned sparrow, brush robin, kingfisher, olive green swallow, oyster catcher, mallard, Steller jays, song sparrows. Heard as usual the continuous morning & evening song of the russet backed thrush, the Wren-tit, the pewee, & chickadee.

June 1 Sunny & warm all day. Collected 8 rat traps I set at 6 AM May 31 - 1 sprung with bait eaten off - it was under stack of old redwood twigs - others all un sprung. Set these in shaded, redwood forest at about 75-100 ft elevation; ground covered with dense matting







Journal.

June 1

Russian Gulch State Park, Mendocino Co., Calif.

of decaying vegetation. My 3 mouse traps were still under log in same redwood forest. Mrs. Grinnell collected these bringing home 1 swamp sparrow.

We started getting our equipment in order to take home. Then Josephine, Jean & I decided to hike east of camp to the creek in the road, follow a path north to a falls, west ~~over~~ the pine barrens to the edge of the park & south back thru the redwood forest back to camp. On the path above the falls <sup>(Elev. 275 - 300 ft)</sup> I found a marbled salamander (*Ambystoma*) - it was slightly injured but not dead - about 10 steps farther on the path a large garter snake was scurrying off into the shrubbery. We thought that perhaps it had tried to eat the salamander, & we had frightened it. Along the trail we gathered 5 fingered, golden backed, & lady ferns. At 4:20 PM we met D. Bartholomew & V. DeMunnick on the pine barrens.

We tabulated the number and kinds of specimens we had collected on the trip.







June 1 Russian Gulch State Park, Mendocino Co., California

Mammal Skins

<u>Mustela</u>	1
<u>Neotoma</u>	7
<u>Eutamias</u>	4
<u>Thomomys</u>	10
<u>Microtus</u>	13
<u>Clethrionomys</u>	2
<u>Peromyscus</u>	65
<u>Zapus</u>	11
<u>Reithrodontomys</u>	3
<u>Sorex pacificus</u>	17
<u>S. townsendi</u>	
<u>S. vagrans</u>	
<u>S. hendersoni</u>	1
<u>Neurotrichus</u>	15
	<u>181</u>

Bird skins

Russet-backed Thrush - 1

Reptiles and Amphibians

<u>Sceloporus</u>	1
<u>Thamnophis</u>	3
<u>Triturus</u>	4
<u>Bufo chiroseps</u>	2
<u>Hyla</u>	2
<u>Ambystoma</u>	1
	<u>13</u>

Skull only.

<u>Sylvilagus bachmanni</u>	1
<u>Neurotrichus</u>	<u>1</u>
	<u>2</u>

Alcoholics

<u>Neurotrichus</u>	1
<u>Neotoma</u> { stomach	
{ 3 emb.	1
	<u>2</u>

Formalin

<u>Reithrodontomys</u>	1
------------------------	---

Scats - 7







Pileolated Warbler

May 17 Russian Gulch State Park, Mendocino Co., California

1:30 PM. Perched in inner branches red alder tree singing.

Breast bright yellow; black crown. Song - 4 slow notes →

5 or 6 gradually accelerated. Alder on creek edge amid

riparian habitat of raspberry bushes, Equisetum, & ferns

at the base of a steep hill covered with Douglas fir,

lowland fir, and red alders (near base)







Francis A. Pack  
1941

## California Woodpecker

May 22. Russian Gulch State Park, Mendocino Co., California; Sea Level.

One seen pecking at trunk of oak near entrance to the park at the seashore. There is a deep gulch here, spanned by a bridge. Creek runs into ocean at floor of gulch. Trees (alder, lowland fir) grow up from floor to almost height of hills. In these saw two woodpeckers hammering on an alder. One was the same as described before. Bright red head, black wings & back. When they flew, wings showed white below. Pair flew off together to top of hill into small tree. Flew out again together into another tree.







Frances A. Pack  
1941

Batrachoseps

May 18 Russian Gulch State Park, Mendocino Co., California, Elevation 500 ft.

1 five inch and 1 one inch found curled in burrow in pile of rotting pine needles, redwood twigs, and fern at base of Bishop pine on level ground north of redwood forest on edge of forest of Cupressus pygmaea. Ground - reddish brown - definite line marking off dorsal & ventral coloration. Line - scalloped. Broken brown line down middle of back. Reddish brown goes over eye to triangle at tip of snout. Ventral side brown with small silvery spots. Legs short - dorsal side reddish brown and ventral brown with silver spots. Black brown star-shaped spot on occipital region. Small one same but not as bright in color as definite.





Frances A. Pack  
1941

Ambystodon

June 1 Russian Gulch State Park, Mendocino Co., California, Elevation 275 ft.

Found lying in middle of path northeast of camp 27 in redwood, Douglas fir forest. Stream was about 20 ft. distant and 10 ft. lower. Ground here covered with matting of dead redwood & Douglas fir leaves and twigs. There was not much underbrush beside the path. Forest floor covered for the most part with ferns. About 10 steps farther along the path, we saw a large garter snake scurrying for cover. The skin injuries on the salamander suggested that perhaps the garter snake had been attempting to eat the Salamander.





Francis A. Pratt  
1941

Eutamias townsendii  
Redwoods chipmunk

May 25 Russian Gulch State Park, Mendocino Co., California, 40' Elevation,  
Male trapped in rat trap (set for wood rat) 300 yards  
from bridge spanning mouth of Russian Gulch on  
50° sloping hill beside road under Douglas fir  
on trail leading to base of the tree. Hillside covered  
for most part with tangle of poison oak, Baccharis,  
thimble, salmon, & blackberry, alder. Ground was  
very loose and damp.





microtus

May 15 Russian Gulch State Park, Mendocino Co, California, Elevation 500 ft

Male caught south of Mendocino pine lawrens  $\frac{1}{2}$  mile north of camp in dense growth of tanbark oak, *Rhododendrons*, *leachii*, *huebneri*, *marjorita*, *Cupressus pyramica*, and small pines (sp.?) There no matting of dry grass on ground <sup>as</sup> in usual *Microtus* habitat. Ground covered with brown, decaying leaves and bushes growing close to the ground.

May 20 40' Elevation

Male caught in meadow west of camp. Grass 24-36 inches high. Dense covering of dry grass at base of tall, green grass through which there were extensive runways in which we found fresh grass clippings and holes.

May 28 150' Elevation

Five ♂'s and one female (4 embryos - 21mm) trapped in meadow about 300 yards from the ocean. Meadow sloped gently - 5° - toward the ocean. Grass about 2½ to 3 feet with thick dry grass near base on ground. Through this were many well-run runways containing small pieces of grass chewed off at the ends. These in small piles on bottom of runway. Three caught in grass under Bishop pines. Pines didn't interfere with growth of grass.

May 30 One *Microtus* (?) caught in trap set in Redwood forest in well-trampled depression under a log. Well-shaded and very damp. Ground covered with thick





Frances A. Pack  
1941

Microtus

May 30 Russian Gulch State Park, Mendocino Co., California.

matting of decaying vegetation

May 31 Elevation 40 ft.

Large male caught in runway in grass beside camp table in meadow 50 ft from our tents. Grass had been about 36" high, but had recently been cut to about 16" - old grass still lying on ground.





Neotoma fuscipes

May 26 Russian Gulch State Park, Mendocino Co., California, Elev. 150 ft.

Female which was nursing young trapped in rat trap on margin of woodland orient to meadow.

Land level but slopes about 10 ft away down into gulch. Woods thickly overgrown. Trees are red alder, Abies grandis, Douglas fir, Chinquapin. Bushes mostly at edge are thimble berry, blackberry, small Chinquapin Baccharis. Drainage good.

Small wood rat nest about 15 ft from where trap set, small nest 15 inches by 10 inches in Douglas fir about 12 ft up in crotch of branches. Further on down hill found three more large wood rat nests. A male was caught half way up the hill south of the ranger's cabin (about 80 ft up) beneath an alder tree under which was a wood rat nest.

This area overgrown with alder, Douglas fir, Grand fir under which is tangle of thimble berry<sup>an</sup> black berry, Slope about 30° - excellent drainage. Pathways going to nest from all directions. Another male caught beneath Douglas fir beside road between ranger's house & ocean - about 1/8 mile from ocean. Slope 60°. Ground overgrown with tangle of thimble berry, poison oak, blackberry, alder. Under this same tree was trapped a chipmunk and 3 snuggles, the head, and abdominal contents





Frances A. Brock  
1941

Neotoma fuscipes

May 26 Russian Gulch State Park, Mendocino Co., California  
of a woodrat the day before (May 25)  
Nest in branch of tree about 15 ft from  
ground. Runways to nest from all directions  
which are well-trodden. Chipmunk trapped on  
one of these runs.





Neurotrichus gibbsii

May 19 Russian Gulch State Park, Mendocino Co, California, Elevation 500 ft.

Male caught in well-trampled depression lined with redwood twigs under old log in redwood forest north of camp about 1/4 mile. Ground is well-shaded and very little sunshine penetrates through the trees. ~~Bracken~~ and wood sorrel growing through the ground covering.

May 21 Elevation 40 ft.

Female caught in riparian habitat (thimble berry, salmon berry, blackberry, red alder, Equisetum) near creek bordering on grassy meadow. Ground is very damp and well-shaded.





Frances A. Pack  
1941

Peromyscus maniculatus

May 17 Russian Gulch State Park, Mendocino Co., California - Elevation 40 ft at camp.

Male caught in museum special west of camp on edge of riparian habitat bordering grassland. Riparian habitat plants were thimble berry, bracken, Equisetum, salmon berry, and red alder. which formed a dense growth along a creek. Ground was wet.

May 18 Russian Gulch State Park, Mendocino Co., California - Elevation 300 ft.

Male caught in low growth of Cyperus pygmaea, huckleberry, bracken (green and dry) and a few small pines. Plants not crowded and open to sun and wind.

This area known as Mendocino pine barrens. Bishop pines scattered over flat lands with flooring of Rhododendrons, huckleberry, manzanita, Cyperus pygmaea, and small pines (sp?).

May 20 Russian Gulch State Park, Mendocino Co., California, Elevation 40'.

Three caught at base of hill in heavy underbrush of blackberry, rattlesnake, thimble berry at the edge of a semi-barren area on the other side of which was a meadow then a creek. Ground here very wet.

Runways everywhere through the grass. Heavy matting of old dried grass on the ground. Noted fresh grass clippings in the runways.

Two of the specimens were males and one a pregnant female with five 15 mm. embryos. This fox she had only 2 well-developed nipples to feed the oncoming young.

May 22. Eleven males caught east of camp in brush beside road.  
— Equisetum, bracken, thimble berry, salmon berry, rattlesnake.





Francis A. Pack  
1941

Peromyscus maniculatus

May 22 Russian Guleh State Park, Mendocino Co., California, Elev. 40 ft.

all caught at margin of grassland and brush.





Sorex

May 17 Russian Gulch State Park Mendocino Co., California., Elev. 500 ft.

Two female shrews caught in redwood forest at elevation of 500 ft in tunnels into piles of decaying vegetation beside logs. Ground was wet & covered with about 2 ft of decaying vegetation through which was growing wood sorrel & fern. Well-shaded area - ground receives sun intermittently. Conspicuous mammary glands & well-developed nipples on venters of these two shrews - evidently were caring for young.

May 20. Elevation 40 ft.

Large gray shrew caught on edge of woodland and meadow (no. 27) slope about 45°, ground wet, and densely overgrown. Creek ~~is~~ about 5 yards from where shrew was caught.

May 21. Fine small brown shrews caught on wet ground under growth of thimble berry, salmon berry, Opuntia, bracken, & nettles. Well-shaded, dark, well-concealed places about 5 yds or less from the stream.

May 24 Two small shrews caught in marginal brushland at edge of creek. Ground very damp and densely covered.





Sorex pacificus

- May 17. Russian Gulch State Park, Mendocino Co., California, Elevation 40 ft.  
Female caught in museum special west of camp on edge of riparian habitat of thimbleberry, bracken, Equisetum, and red alder bordering grassland. This area ~~followed~~ a creek, and the ground was wet. Especially today because it rained hard last night, and the grass was still dripping wet.
- May 20. Female caught west of camp south of the creek in the entrance to a burrow into a rock at the base of the hill next to the creek. Ground very damp and covered thinly with old leaves. Creek about 6 yards away.
- May 21. 5 caught east of camp along road in dense growth of bracken, thimble & salmon berry & Equisetum. Ground here was wet and well-concealed by the overgrowth of foliage.
- May 26. Two caught at 150 ft elevation south of camp at edge of meadowland in growth of Blackhairs, Lalradortea, thimble & blackberry tangle. Ground very damp. Nearest water at base of hill about 1/4 mile.





Francis A. Puck  
1941

Sorex trowbridgii

May 17 Russian Gulch State Park, Mendocino Co., California, Elevation 40 ft.

Female caught at boundary of riparian and grassland habitats. Riparian consisted of thimble berry, blackberry, red alder, and Equisetum. Ground and grass very wet as result of heavy rain during the night. In this same area caught Sorex pacificus, Sorex vagans, Reithrodontomys megalotis, and Peromyscus maniculatus.





Francis A Pack  
1941

Sylvilagus backmanni

May 28 Russian Gulch State Park, Mendocino Co., California, Elevation 150 ft.

Female caught in measel trap by front paws at edge of tangle of blackberry and water quass at edge of drainage ditch. Chenopodium growing from other side of ditch. Meadow on either side of this. Well-defined trails in and out of brush following ditch.

This on road leading to ocean directly West of bridge over mouth of Russian Gulch. Maggots, sow bugs, etc. ruined the specimen for a skin, but skull saved.





Thomomys bottae

May 22 Russian Gulch State Park, Mendocino Co, California, Elevation 40 ft.

Young <sup>♀</sup>~~one~~ captured alive in surface runway in meadow in back of our tent. These runways were taken to be mole burrows because of being  $1\frac{1}{2}$  inches from the surface. A mole trap had been set a foot from where new diggings were noticed. On removing the new dirt saw dirt mounding and dug back in burrow & caught the young gopher. Meadow covered with thick tall (2 ft) green grass which had recently been cut.

May 25 Large male trapped in same burrow system in which young female was caught. Burrow system ~~followed~~ travelled  $1\frac{1}{2}$  inches under surface for about 2 feet. and then inclined down at about  $30^\circ$  angle and then dropped down to a depth of 23 inches where a nest was located. From it radiated out 5 burrows, two of which united, leaving 3 main burrows 3 inches in diameter. Nest was made of dry grass matted together - about 7 inches wide and tucked in a indentation in the side of the burrow. Burrow inclined to 6 inches in the vicinity of the nest.

Pieces of green grass around outer edges of the nest. Ground damp and easy to dig except for large rocks and pieces of wood. gopher detoured around these. Male in breeding season. He was hard to skin because of a layer of fat and muscle sturdily attached





Frances A. Pack  
1941

Thomomys bottae

May 25 Russian Gulch State Park, Mendocino Co, California, Elevation 40 ft.  
to the skin.

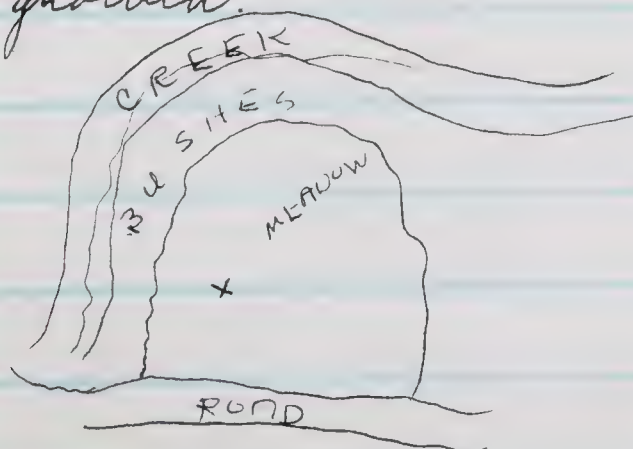
May 28 One large male trapped in lawn - clover, grass - across from Mungie's house. Picked up at 7 AM. Burrow  $3\frac{1}{2}$  inches below ground and 3" diameter; follows  $3\frac{1}{2}$  inches underground for 4 or 5 feet and starts down. Young female trapped at 6 PM in surface burrow about 10 yards from place where large ♂ caught. Possibly the same burrow system.

150 ft. Elevation

Immature female trapped in surface burrow in meadow sloping ( $5^\circ$ ) to ocean - about 150 yards from ocean. Ground damp and very loose & full of decaying vegetation, roots, and old twigs and limbs.

May 29. 40 ft Elevation

Large male trapped in run burrows down. Surface burrow ran for 3 ft - 2" under, then dropped to large run 6" down -  $3\frac{1}{2}$ " diameter. In meadow west of camp - 15 yds from creek. Ground level, very damp, ~~and~~ loose, and full of roots. Grass cover dense - recently cut leaving 5" growth.







Zapus orarius  
Jumping Mouse.

May 24 Russian Gulch State Park, Mendocino Co., California, Elevation 40 ft.

Two caught in edge of meadow & brush west of camp about 15 yards from a creek. Brush was mainly thimble, salmon, & blackberry with some nettle.

May 26 Elevation 150 ft.

Female caught in high grass in runway under Baccharis bush in meadow. Meadow gently sloped toward sea ( $5^\circ$ ). Woodland surrounded it on north and east sides.

When examining traps, I saw one near trap, & it escaped hurriedly into blackberry thicket. This was at 7 o'clock in the morning.





## Birds

### Russian Gulch State Park, Mendocino Co, California

California Woodpecker III

Wren-tit II

Bush-tit IIII

Western winter wren THH I

Allen hummingbird II

Olive-sided flycatcher THH

Pied-billed wren I

Russet-backed thrush II

Gnatcatcher III

Crow IIII

Band-tailed pigeons IIII

White-crowned sparrow THH

Song sparrow THH II

Meadow lark IIII

Kingfisher

Bald cormorant

Pigeon guillemot

Vulture

Purple green swallow

Hutton vireo.

Vaux swift

California Linnet

Pewee (?)

Oyster catcher.























